

HK766S: Managing HP StoreOnce Backup Solutions

Course Summary

Description

Managing HP StoreOnce Backup Solutions covers the HP StoreOnce backup products, including the single node appliances, the clustered appliances, and the relatively new Virtual SAN Appliance (VSA). In this course we discuss the range of products in the product line, and explain concepts, installation, and use. The course includes hands-on labs using HP StoreOnce appliances. This course is updated to include the new, advanced features of the products.

Objectives

By the end of this course, students will be able to:

- Describe the major hardware and software components of the StoreOnce Product line
- Describe important StoreOnce product concepts
- Explain the importance and advantages of deduplication
- Configure StoreOnce devices for initial use
- Create Virtual Tape Libraries (VTL) and NAS shares
- Configure replication between two StoreOnce devices
- Configure Catalyst Stores
- Perform basic troubleshooting and maintenance procedures

Topics

- Product Introduction
- Virtual Tape Libraries
- NAS Shares
- HP StoreOnce Deduplication
- Installation
- Web Management Interface
- High Availability with b6000 Couplets
- Replication
- Replication and StoreOnce Enterprise Manager
- Catalyst
- Catalyst Advanced Features
- Best Practices
- Troubleshooting
- Appendix A
- Appendix B
- Appendix C

Audience

StoreOnce customers, HP Services field engineers, call center personnel, presales and channel partners, and other field personnel who provide installation and/or operational support assistance

Prerequisites

- Basic Windows administration experience and
- Basic understanding of SCSI, iSCSI, RAID, fibre channel, and SAN technologies

Duration

Two days

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Course Outline

- I. Product Introduction**
 - A. StoreOnce backup systems
 - B. New StoreOnce product features and benefits
 - C. HP StoreOnce family comparison
 - D. Features in HP StoreOnce 6000 models
- II. Virtual Tape Libraries**
 - A. HP StoreOnce (D2D) backup systems
 - B. Choosing VTL vs NAS
 - C. Virtual Tape Libraries (VTL)
 - D. iSCSI and fibre channel connections to VTL
 - E. Flexible emulations
- III. NAS Shares**
 - A. NAS shares and server configuration
 - B. CIFS authentication methods
 - C. StoreOnce NAS limitations
- IV. HP StoreOnce Deduplication**
 - A. Deduplication: what is it and key benefits
 - B. Deduplication: data locality and ratios
 - C. Housekeeping and scheduling
 - D. Limiting housekeeping Windows
- V. Installation**
 - A. Installing the StoreOnce devices
 - B. Available connections
 - C. iSCSI modes of operation
 - D. Fibre channel topologies
 - E. Discovering the StoreOnce device
 - F. Discovery – troubleshooting
 - G. Networking 'wizard'
 - H. Updating firmware and drivers
 - I. Licensing
 - J. Installation of 600
- VI. Web Management Interface**
 - A. HP StoreOnce - web management GUI login
 - B. HP 6000 - web management GUI
 - C. HP StoreOnce - web management GUI - VTL, interface, NAS shares and replication
 - D. Managing NAS shares - active directory
- VII. High Availability with b6000 Couplets**
 - A. Terminology and basic concepts
 - B. High availability with autonomic failover
 - C. Node failover
 - D. Systems network configuration
 - E. Network bonding
 - F. b6000 node failback and CLI commands
- VIII. Replication**
 - A. Definition and replication granularity
 - B. Replication fan-out and fan-in
 - C. Bi-directional replication
 - D. Seeding the replication target
 - E. Replication recovery
 - F. Making replication targets visible to host
 - G. NAS replication and 'seeding'
 - H. VTL and NAS replication and configuration
 - I. Replication alerts
- IX. Replication and StoreOnce Enterprise Manager**
 - A. Monitoring with StoreOnce Enterprise Manager
 - B. Enterprise Manager administrator and user functions
 - C. Reporting Capabilities
 - D. Deployment of StoreOnce VSA

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Course Outline (con't)

- X. Catalyst**
 - A. HP StoreOnce Catalyst overview and API
 - B. HP StoreOnce Catalyst - new features
- XI. Catalyst Advanced Features**
 - A. Teamed Catalyst
 - B. Catalyst over Fibrechannel
- XII. Best Practices**
 - A. General best practices
 - B. Flexible emulations best practices
 - C. StoreOnce replication best practices
 - D. NAS share best practices
 - E. Physical tape offload methods
- XIII. Troubleshooting**
 - A. FAQs
 - B. Power / boot and connection problems
 - C. Disk errors and warnings
 - D. Backup or disk space problems
 - E. Miscellaneous issues
- XIV. Appendix A**
 - A. Installation of the StoreOnce VSA
- XV. Appendix B**
 - A. Security Pak Features
- XVI. Appendix C**
 - A. Advanced Networking Features of the 3.11 Release